



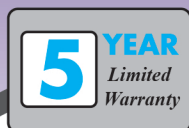
ILLUVIA®
CONTINUOUS ROOM DISINFECTION

500UV



In-room HEPA Ultraviolet Air Recirculation System (HUAIRS)

- Continuous, high-volume germicidal air disinfection
- High efficiency air recirculation capacity at 500 cubic feet per minute without creating crosscurrents
- Maximum reduction of airborne microbial contamination
- Patented C-UVC™ Technology-mediated elimination of bacteria, viruses and spores
- State of the art photocatalytic oxidation (PCO) to eliminate VOCs and odors
- No physical plant modification required
- Small footprint and low noise



**ASSURED
PERFORMANCE**



**OZONE
FREE**



**LABORATORY
TESTED**



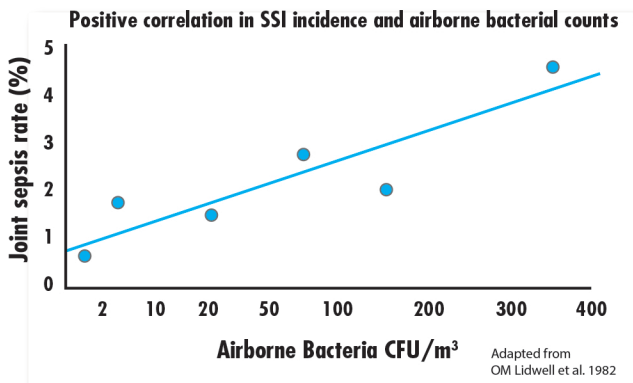
**DESIGNED AND
BUILT IN USA**

Lenbrook
CANADA
SOLUTIONS

www.LenbrookCanadaSolutions.com

ILLUVIA™ 500UV

Abundant scientific evidence links airborne microorganisms to orthopedic surgical infections, primarily due to commensals such as *S. aureus*¹⁻³

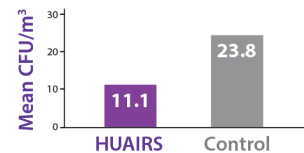


1. Lidwell, O.M., et al., *Effect of ultraclean air in operating rooms on deep sepsis in the joint after total hip or knee replacement: a randomised study*. Br Med J (Clin Res Ed), 1982. **285**(6334): p. 10-4.
2. Lidwell, O.M., et al., *Airborne contamination of wounds in joint replacement operations: the relationship to sepsis rates*. J Hosp Infect, 1983. **4**(2): p. 111-31.
3. Darouiche, R.O., et al., *Association of Airborne Microorganisms in the Operating Room With Implant Infections: A Randomized Controlled Trial*. Infect Control Hosp Epidemiol, 2017. **38**(1): p. 3-10.

Reduction in airborne bacterial levels in the operating room via HEPA Ultraviolet Air Recirculation System (HUAIRS)

Results:

Operating room air was continuously sampled for 7 hours prior to (CONTROL) and after the deployment of HUAIRS device (HUAIRS). Airborne bacterial contamination was quantified. Results presented as bacterial counts in CFU/m³.



For the cultured samples obtained, there was a **67.7%** reduction in CFU count in twelve paired samples. This reduction is statistically significant (p=.0163) using a paired T-test.

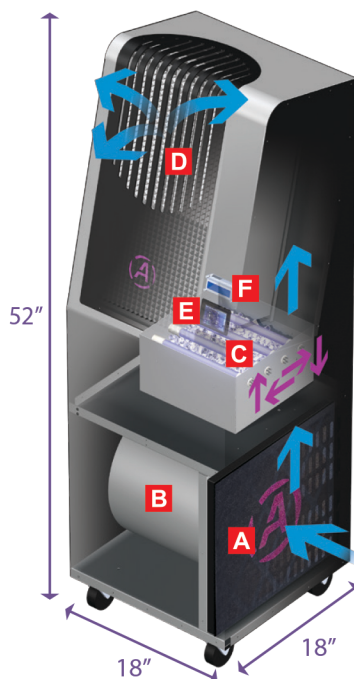
Conclusions:

Implementation of HUAIRS device in an active operating room significantly decreases airborne bacterial burden.

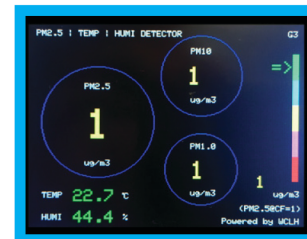
Kirschman, D., MD, Eachempati, S.R., MD FACS, FACCM, Aerobiotix, Inc, Airborne bacteria in the operating room can be reduced by HEPA/Ultraviolet air recirculation system (HUAIRS). Surgical Infection Society 2017.

Product Data

- Electronic air quality display
 - Indicates PM1.0, PM2.5, PM10
 - Temperature and humidity
- Single pass germicidal irradiation
 - 100% viruses
 - 99.97% bacteria
 - 99.91% spores
- Up to 500 CFM air flow
- 8ACH in 20' x 20' room
- 115 VAC - standard outlet
- 64 watt internal germicidal UV-C
- Quartz germicidal chamber
- LED lamp integrity indicators
- Full steel construction
- Easily changeable disposable Performance Cartridge
- HEPA Post-Filter 24" x 12" x 12"



- A** DISPOSABLE PERFORMANCE CARTRIDGE*
- B** BLOWER/MOTOR
- C** ULTRAVIOLET REACTOR
- D** HEPA FILTER
- E** AIR QUALITY MONITOR*
- F** HOUR COUNTER



*Air Quality Monitor

- Real-time display
- Air particulate density
- Temperature
- Humidity

*Disposable Performance Cartridge



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